

Service Manual

ORDER NO. RRV1967

PD-F807

Refer to the service manual RRV1898 for PD-F907/KU.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Туре	Model	Power Requirement	Remarks		
Турс	PD-F807	rower Kequirement	Remarks		
KUXQ	0	AC120V			

■ CONTRAST OF MISCELLANEOUS PARTS

- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Reference Nos. indicate the pages and Nos. in the service manual for the base model.
 - When ordering resistors, first convert resistance values into code form as shown in the following examples.
 - Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

 $560 \Omega \rightarrow 56 \times 10^{1} \rightarrow 561$ RD1/4PU 5 6 1 J

 $47k \Omega \rightarrow 47 \times 10^{3} \rightarrow 473$ RD1/4PU 4 7 3 J

 $0.5 \Omega \rightarrow R50$ RN2H R 5 0 K

 $1 \Omega \rightarrow 1R0$ RSIP 1 R 0 K

■ CONTRAST TABLE

PD-F807/KUXQ and PD-F907/KU are constructed the same except for the following:

Ref.	Moule	Complete and December on	Par	t No.	
No.	Mark	Symbol and Description	PD-F907/KU	PD-F807/KUXQ	Remarks
		ASSEMBLIES			
	NSP	MOTHER BOARD ASSY	PWM2119	PWM2124	
P6-4	NSP	└ SWITCH BOARD ASSY	PWZ3432	PWZ3434	
		PACKING			
P3-3		Remote Control Unit (CU-PD080)	PWW1132	Not used	
P3-4		Battery Cover	AZA7204	Not used	
P3-6		Operating Instructions(English)	PRB1263	PRB1275	
P3-8		Polyethlene Bag	Z21- 038	Not used	
P3-11		Packing Case	PHG2285	PHG2332	
P3-12		Mirror Mat	Z23- 020	Not used	
P3-12		Packing Sheet	Not used	PHF1001	
P3-13	NSP	Battery (R6P,AA)	VEM- 013	Not used	
		EXTERIOR			
P6-18		Rear Base	PNA2389	PNA2445	
P6-21		Back Fence	PNW2671	PNW2848	
P6-26		Hood Base	PNW2633	PNW2847	
P6-35		Disc Rack	PNW2632	PNW2845	
P6-36		Mecha Base	PNW2639	PNW2851	
P6-50		Operation Panel	PNW2773	PNW2862	
P6-52		Hood	PNW2732	PNW2850	

■ CONTRAST OF PCB ASSEMBLIES

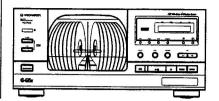
O SWITCH BOARD ASSY

PWZ3434 and PWZ3432 are constructed the same except for the following:

Mark	Sumbol and Description	Part	No.	Remarks
IVIAIK	Symbol and Description	PWZ3432	PWZ3434	Remarks
	C752 Remote receiver unit	CKCYF103Z50 GP1U27X	Not used Not used	

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Service Manual



ORDER NO. RRV1898

PD-F907

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Tyma	Model				
Туре	PD-F957	PD-F907	Power Requirement	Remarks	
KU	_	0	AC120V		
КС	_	0	AC120V		
KU/CA	0	_	AC120V		

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1997
T-77Y DEC. 1997

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

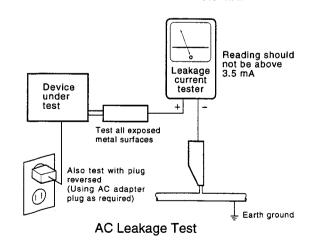
(FOR USA MODEL ONLY)-

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 3.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

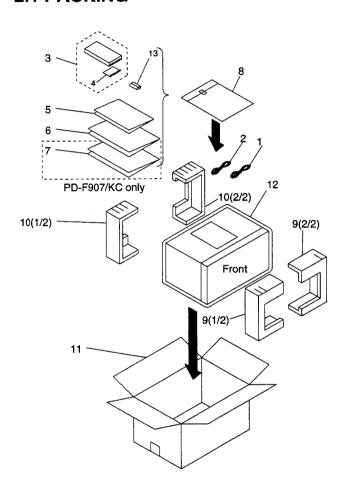
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The 1 mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screw adjacent to ♥ mark on the product are used for disassembly.

2.1 PACKING



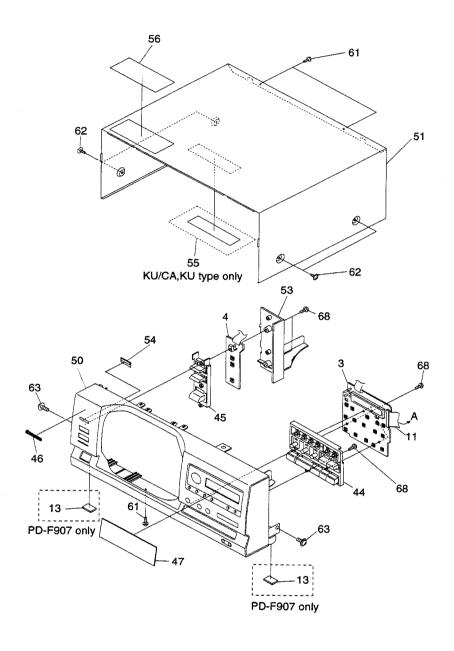
<u>Mark</u>	No.	Description	Parts No.
	1	Control Cable (L=1.0m)	PDE1247
	2	Output Cable (L=1.0m)	PDE1248
	3	Remote Control Unit	See Contrast table (2)
	4	Battery Cover	AZN7204
NSP	5	Warranty Card	See Contrast table (2)
	6	Operating Instructions (English)	See Contrast table (2)
	7	Operating Instructions (French))	See Contrast table (2)
	8	Polyethlene Bag	Z21 - 038
	9	Styrol Protector F	PHA1307
	10	Styrol Protector R	PHA1308
	11	Packing Case	See Contrast table (2)
	12	Mirror Mat	Z23 - 0204
NSP	13	Battery (R6P, AA)	VEM - 013

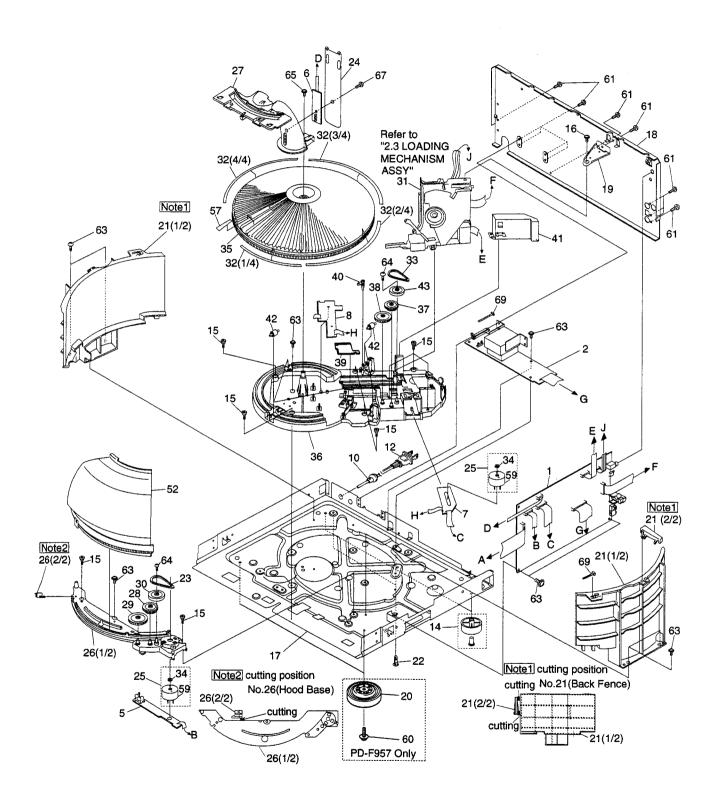
(2) CONTRAST TABLE

PD-F907/KU,KC and PD-F957/KU/CA have the same construction except for the following:

Mark	No.	Symbol & Description	PD-F957/ KU/CA	PD-F907/ KU	PD-F907 KC	Remarks
	3	Remoto Control Unit	PWW1130 (CU-PD088)	PWW1132 (CU-PD080)	PWW1132 (CU-PD080)	
NSP	5	Warranty Card	ARY1044	ARY1044	ARY1039	
	6	Operating Instructions (English)	PRB1264	PRB1263	PRB1263	
	7	Operating Instructions (French)	Not used	Not used	PRD1023	
	11	Packing Case	PHG2304	PHG2285	PHG2286	

2.2 EXTERIOR





PD-F957,PD-F907

(1) EXTERIOR PARTS LIST

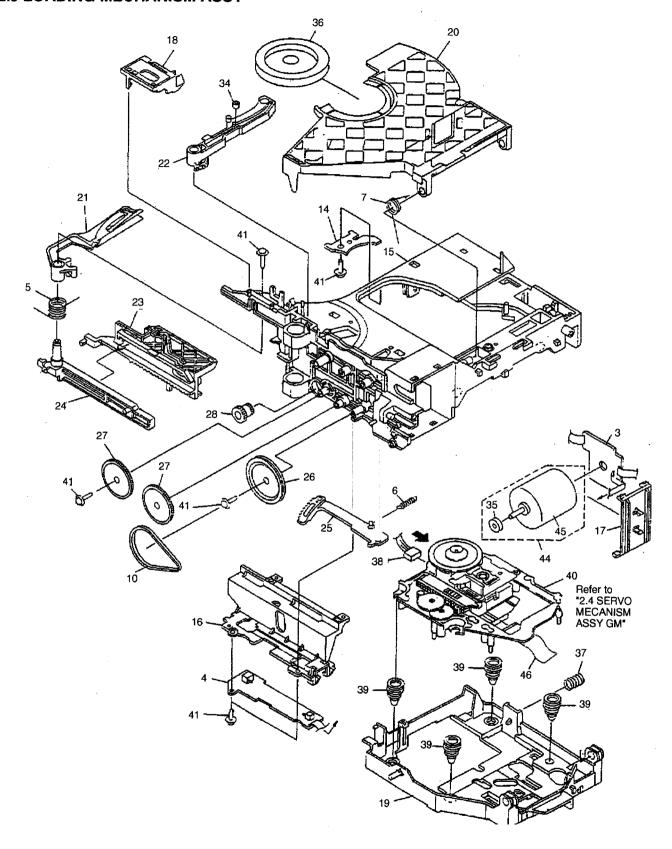
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
Ţ	1	Main Board Assy	See Contrast table(2)		36	Mecha Base	PNW2639
1	2	Power Board Assy	See Contrast table(2)		37	Gear	PNW2641
	3	Display Board Assy	See Contrast table(2)		38	Gear	PNW2642
NSP	4	Switch Board Assy	See Contrast table(2)		39	Slider	PNW2643
NSP	5	Door Board Assy	See Contrast table(2)		40	Lock Lever	PNW2644
NSP	6	Center LED Board Assy	See Contrast table(2)		41	Mecha Stopper	PNW2646
NSP	7	Select Motor Board Assy	PWZ3324		42	Roller	PNW2647
NSP	8	Sensor Board Assy	PWZ3327		43	Gear Pulley	VNL1662
	9	*************			44	Control Button	PAC1822
Ĺ	10	Cord Stopper	CM - 22C		45	Power Button	PAC1833
	11	F.F.C/30V	See Contrast table(2)		46	Name Plate	VAM1073
1	12	AC Power Cord	PDG1015		47	Display Window	See Contrast table(2)
	13	Rubber Sheet	See Contrast table(2)		48	***********	• •
	14	Foot Assy	See Contrast table(2)		49	***********	
	15	Screw C	PBA1106		50	Operation Panel	See Contrast table(2)
	16	Screw	PBA1108		51	Bonnet Case	PYY1191
NSP	17	Under Base	PNA2255		52	Hood	PNW2732
	18	Rear Base	See Contrast table(2)		53	Side Fence	PNW2674
	19	Stopper Angle	PNB1559		54	Sensor Acryl	VNK1566
	20	Insulator	See Contrast table(2)		55	65 Label	See Contrast table (2)
	21	Back Fence	PNW2671		56	Label	PRW1428
	22	Locking Card Spacer	VEC1596		57	Label	PRW1429
	23	Belt	PEB1288		58	***************************************	
	24	Cover	PNM1294		59	Slider Motor	VXM1033
	25	Motor Assy	PEA1333		60	Screw	IBZ30P080FZK
	26	Hood Base	PNW2633		61	Screw	BBZ30P080FZK
	27	Center Pole	PNW2634		62	Screw	FBT40P080FZK
	28	Gear	PNW2641		63	Screw	IBZ30P060FMC
	29	Gear	PNW2642		64	Screw	IPZ20P080FMC
	30	Gear Pulley	VNL1662		65	Screw	IPZ30P080FCU
	31	Loading Mechanism Assy	PXA1589		66		
	32	Rack Label	PAM1732		67	Screw	PPZ30P050FMC
	33	Belt	PEB1288		68	Screw	PPZ30P100FMC
	34	Motor Pulley	PNW1634		69	Binder	Z09 - 056
	35	Disc Rack	PNW2632				

(2) CONTRAST TABLE

PD-F907/KU,KC and PD-F957/KU/CA have the same construction except for the following:

			Part No.				
Mark	No.	Symbol & Description	PD-F957/ KU/CA	PD-F907/ KU	PD-F907/ KC	Remarks	
4.	1	Main Board Assy	PWZ3663	PWZ3400	PWZ3400		
È	2	Power Board Assy	PWZ3668	PWZ3414	PWZ3414		
	3	Display Board Assy	PWZ3672	PWZ3426	PWZ3426		
NSP	4	Switch Board Assy	PWZ3675	PWZ3432	PWZ3432		
NSP	5	Door Board Assy	PWZ3681	PWZ3441	PWZ3441		
NSP	6	Center LED Board Assy	PWZ3683	PWZ3443	PWZ3443		
	11	F.F.C/30V	PDD1186	PDD1167	PDD1167		
			(40P F.F.C)	(32P F.F.C)	(32P F.F.C)		
	13	Rubber Sheet	Not Used	AEB1111	AEB1111		
	14	Foot Assy	REC1263	AEC1531	AEC1531		
	18	Rear Base	PNA2405	PNA2389	PNA2389		
	20	Insulator	PNW2766	Not Used	Not Used		
	47	Display Window	PAM1752	PAM1725	PAM1725		
	50	Operation panel	PNW2786	PNW2773	PNW2773		
	55	65 Label	ORW1069	ORW1069	Not used		

2.3 LOADING MECHANISM ASSY

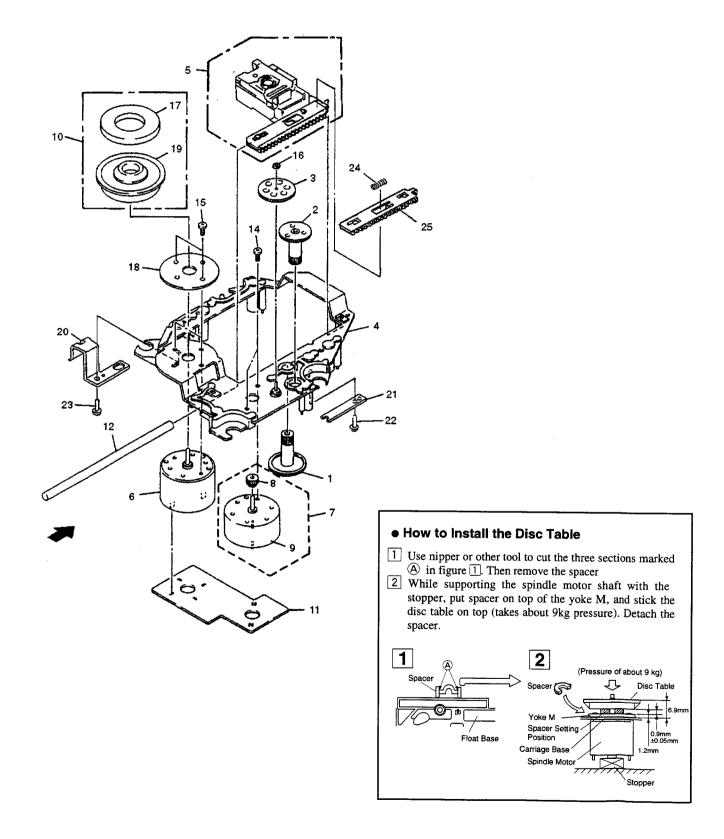


PD-F957,PD-F907

■ LOADING MECHANISM ASSY PARTS LIST

Mark	No.	Description	Parts No.
	1		
	2	************	
NSP	3	Loading Motor Board Assy	PWZ3337
NSP	4	Load SW Board Assy	PWZ3334
	5	Arm A Spring2	ABH7124
	6	Gear Plate Spring	ABH7051
	7	Clamp Spring	ABH7107
	8	•••••	
	9	•••••	
	10	Loading Belt	AEB7029
	11		
	12	************	
	13	************	
NSP	14		ANB7047
	15	Loading Base	ANW7086
	16	Cam Cover	ANW7052
	17	Motor Holder	ANW7053
	18	Sensor Holder	ANW7119
	19	Float Base 96	PNW2700
	20	Clamper Holder	ANW7117
	21	Arm (A)	ANW7057
	22	Arm (B)	ANW7058
	23	Drive Plate	ANW7059
	24	Arm Plate	ANW7060
	25	Gear Plate	ANW7111
	26	Gear Pulley (B)	ANW7062
	27	Gear A	ANW7063
	28	Drive Gear	ANW7064
	29	•••••	
	30	**********	
	31		
	32	•••••	
	33	Deller D	A
	34	Roller B	ANW7075
	35	Motor Pulley	PNW1634
	36	Clamper	PNW2743
	37	Float Spring	ABH7049
	38	Connector Assy (4P)	RDE1043
	39	Float Rubber	AEB7028
NSP	40	Servo Mechanism Assy GM	PXA1591
	41	Screw	IPZ20P080FMC
	42	•••••	
	43		
	44	Motor Assy	AEA7006
	45	Loading Motor	VXM1034
	46	16P FFC/30V	PDD1180
		Froil (for Service)	GYA1001
		Ha Narl (for Service)	GEM1016

2.4 SERVO MECHANISM ASSY GM



PD-F957,PD-F907

■ SERVO MECHANISM ASSY GM PARTS LIST

Mark	No.	Description	Parts No.
	1	Gear 1	PNW2052
	2	Gear 2	PNW2053
	3	Gear 3	PNW2054
	4	Carriage Base	PNW2699
	5	Pickup Assy - S	PEA1335
	6	D.C. Motor Assy (SPINDLE)	PEA1235
	7	Carriage DC Motor Assy	PEA1246
	8	Pinion Gear	PNW2055
	9	Carriage DC Motor/0.3W	PXM1027
	10	Disc Table Assy	PEA1314
	11	Mechanism Board Assy	PWX1192
	12	Guide Bar	PLA1094
	13	************	
	. 14	Screw	JFZ17P025FZK
	15	Screw	JFZ20P040FMC
	16	Washer	WT12D032D025
	17	Clamp Magnet	PMF1014
	18	Yoke M	PNB1312
NSP	19	Disc Table	PNW2410
NSP	20	Float Angle	ANB7020
	21	Gear Stopper	PNB1303
	22	Screw	BPZ20P060FMC
	23	Screw	BPZ26P100FMC
	24	PU Rack Spring	ABH7077
	25	Rack Holder	PNW2056

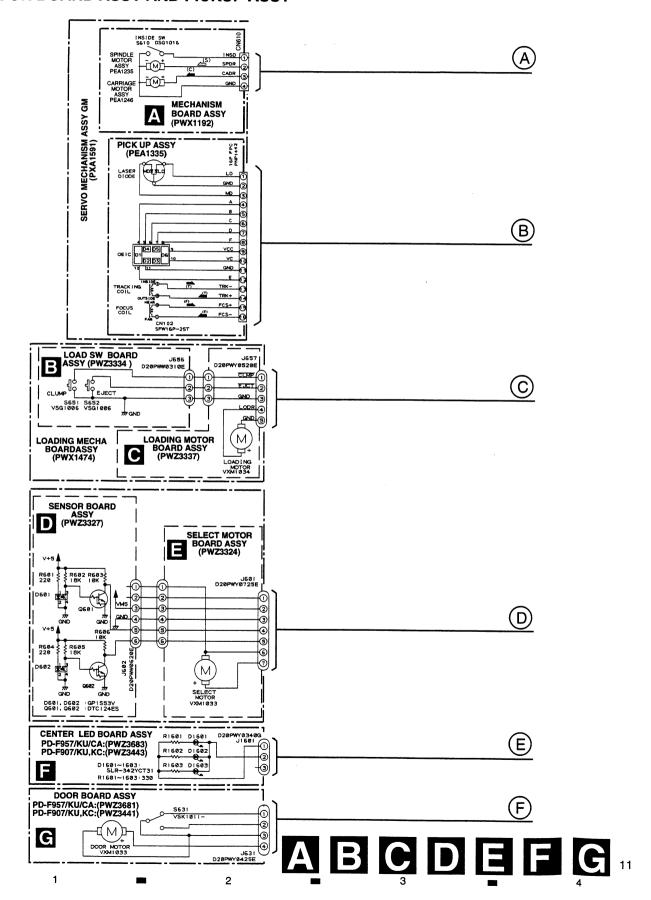
3. SCHEMATIC DIAGRAM

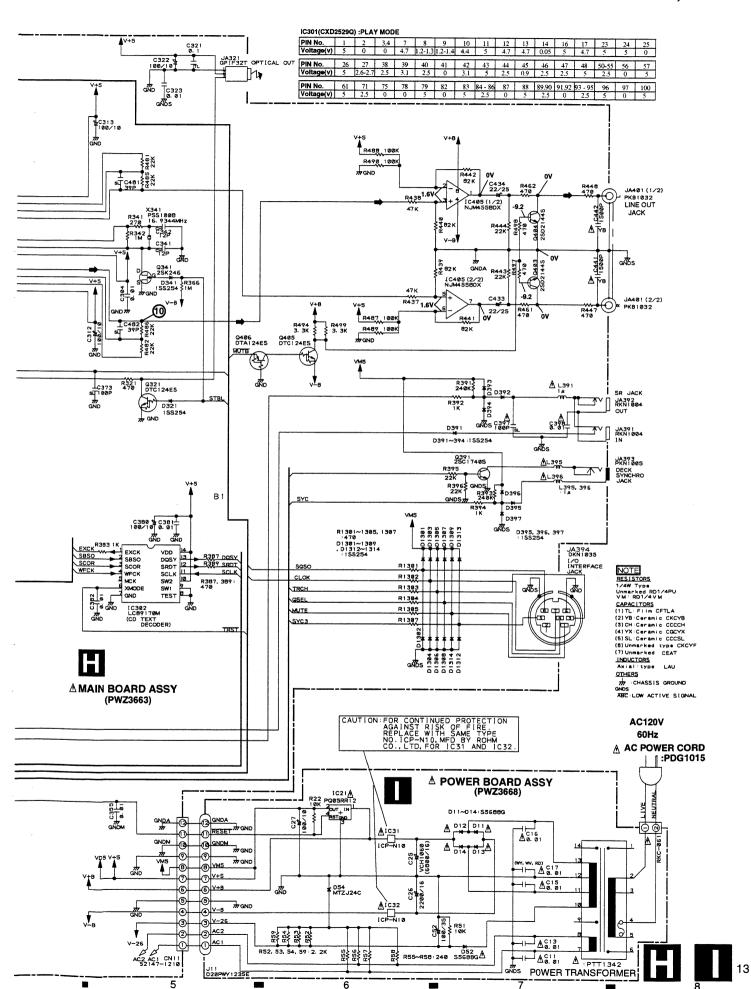
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Note: When ordering service parts, be sure to refer to "EXPLODED VIEW AND PARTS LIST" or "PCB PARTS LIST".

2

3.1 MECHANISM BOARD ASSY,SENSOR BOARD ASSY,LOAD SW BOARD ASSY,SELECT MOTOR BOARD ASSY,LOADING MOTOR BOARD ASSY,CENTER LED BOARD ASSY, DOOR BOARD ASSY AND PICKUP ASSY

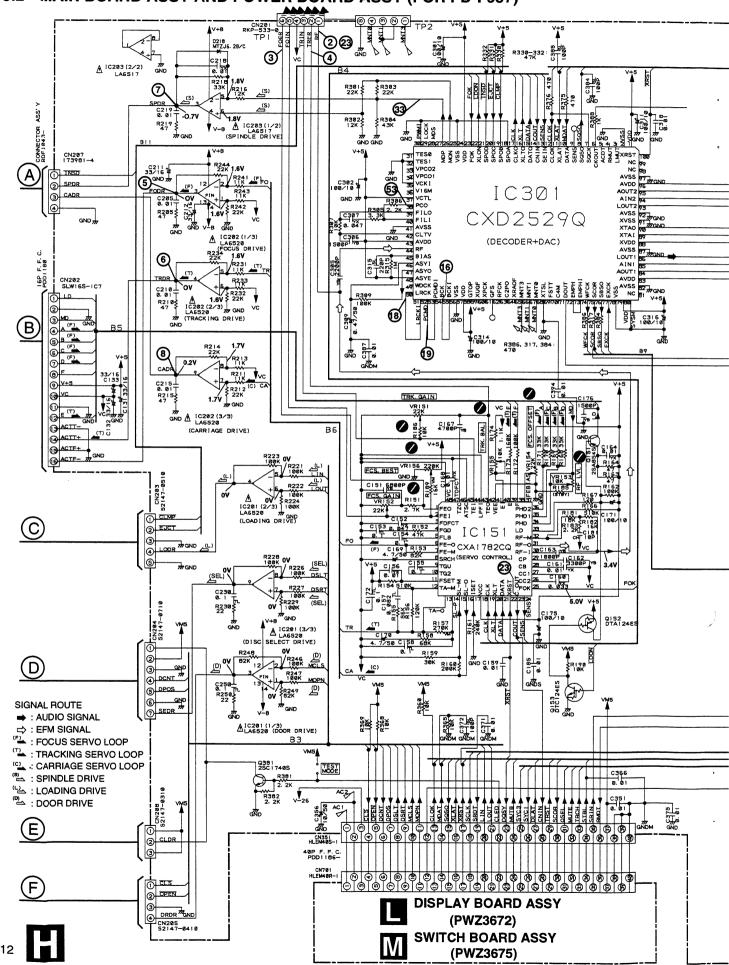




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3.2 MAIN BOARD ASSY AND POWER BOARD ASSY (FOR PD-F957)

2

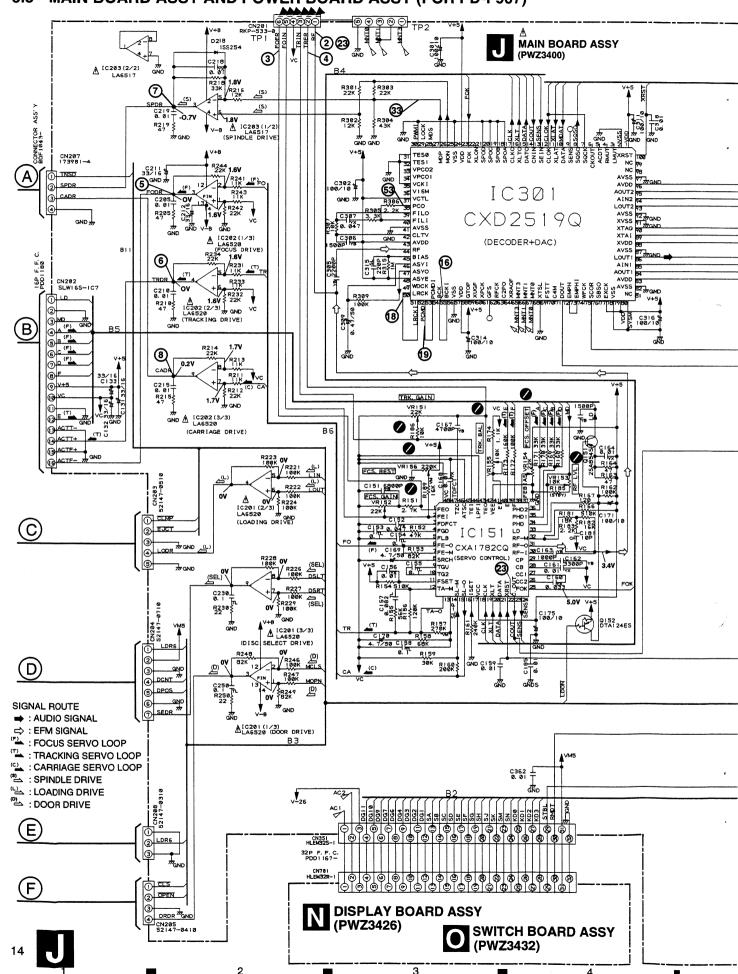


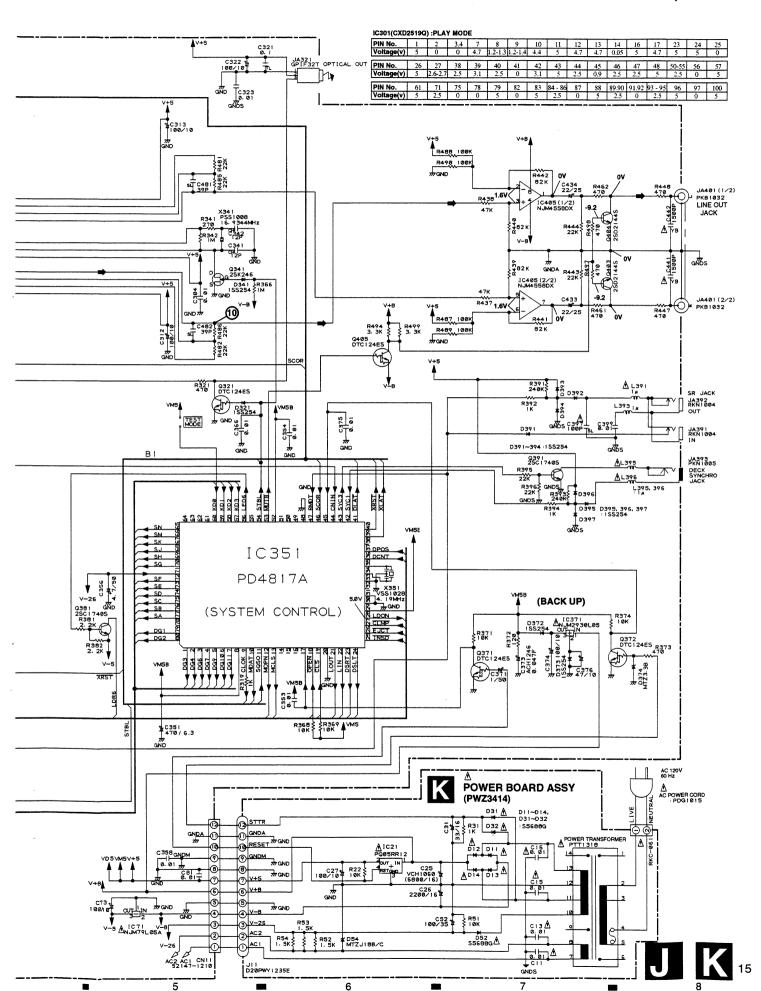
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3.3 MAIN BOARD ASSY AND POWER BOARD ASSY (FOR PD-F907)



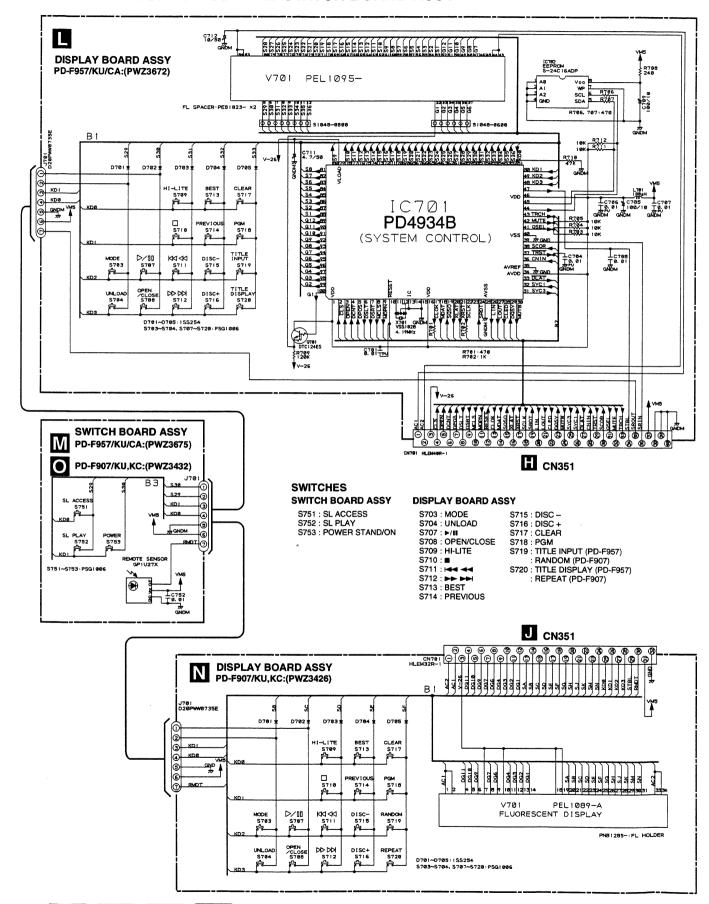


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3.4 DISPLAY BOARD ASSY AND SWITCH BOARD ASSY



3

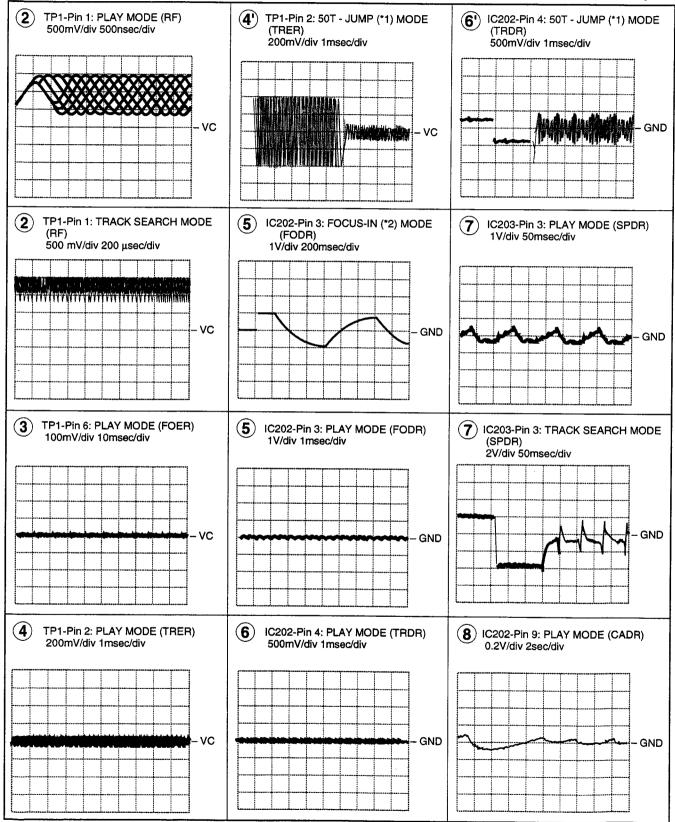
16 L M N O

Waveforms

Note: The encircled numbers denote measuring point in the schematic diagram.

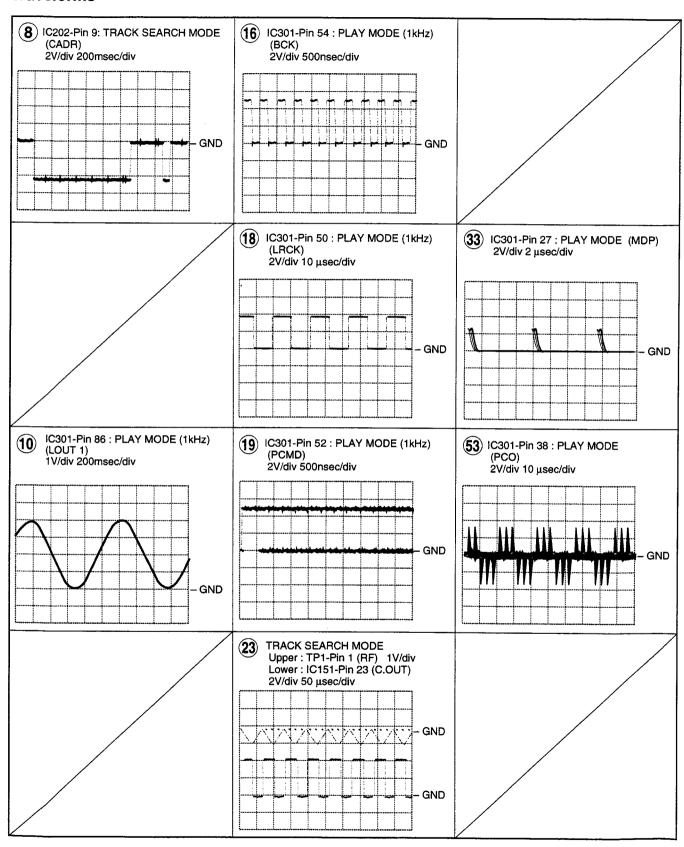
- *1 50T-JUMP: After switching to the pause mode, press the manual search key.

 *2 FOCUS-IN: Press the play key without loading a disc.



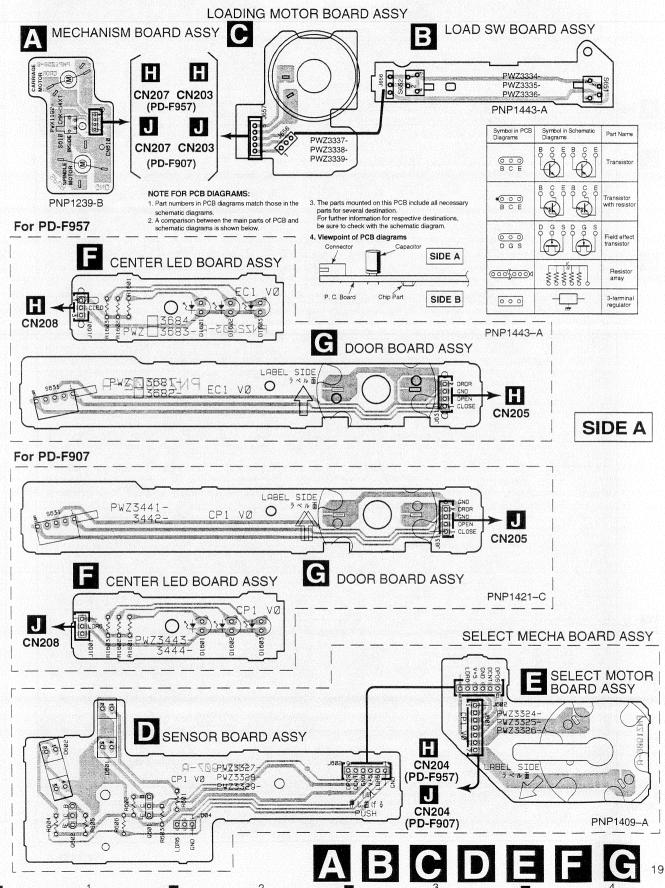
PD-F957,PD-F907

Waveforms

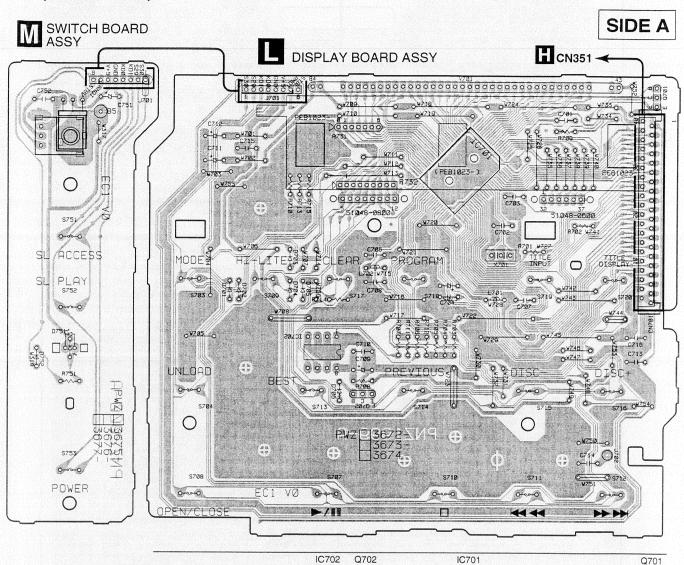


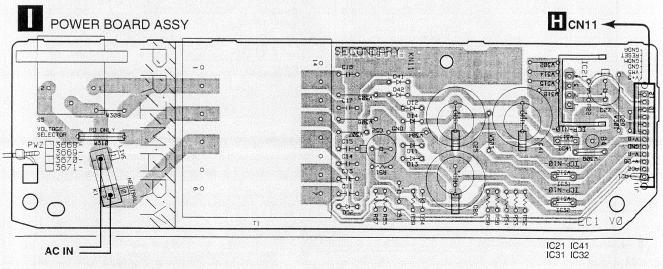
4. PCB CONNECTION DIAGRAM

4.1 MECHANISM BOARD ASSY,SENSOR BOARD ASSY,LOAD SW BOARD ASSY,SELECT MOTOR BOARD ASSY,LOADING MOTOR BOARD ASSY,CENTER LED BOARD ASSY AND DOOR BOARD ASSY



4.3 DISPLAY BOARD ASSY,SWITCH BOARD ASSY AND POWER BOARD ASSY (FOR PD-F957)

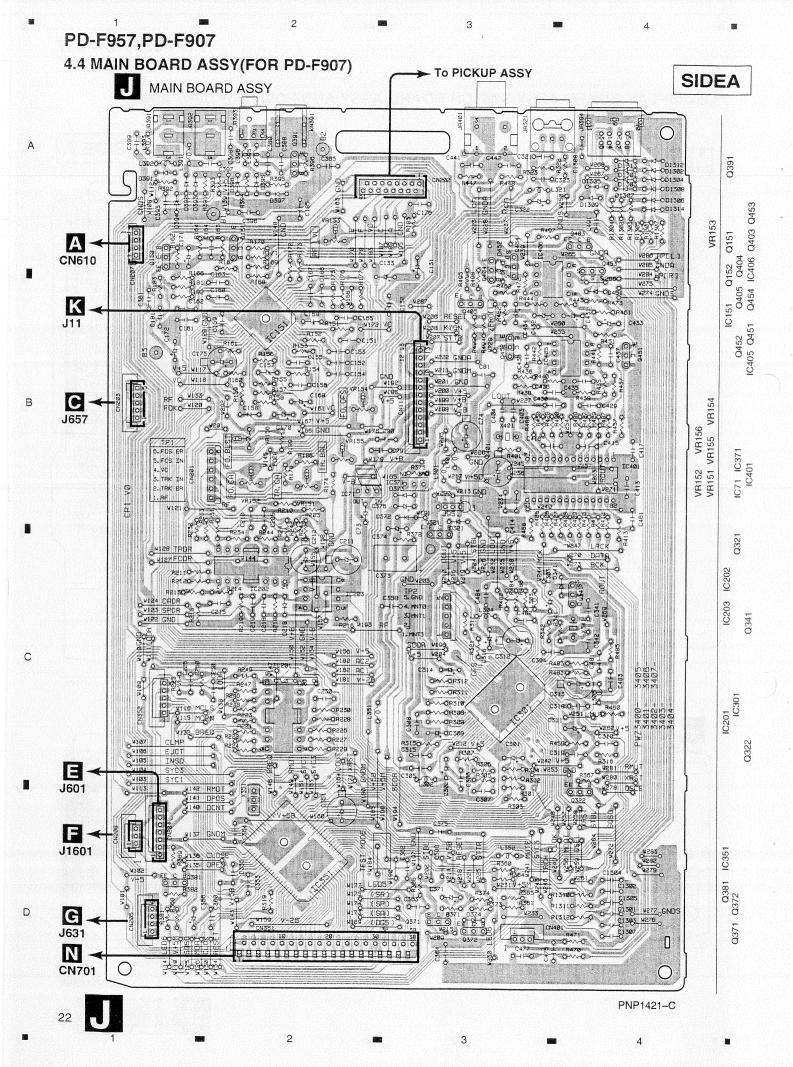




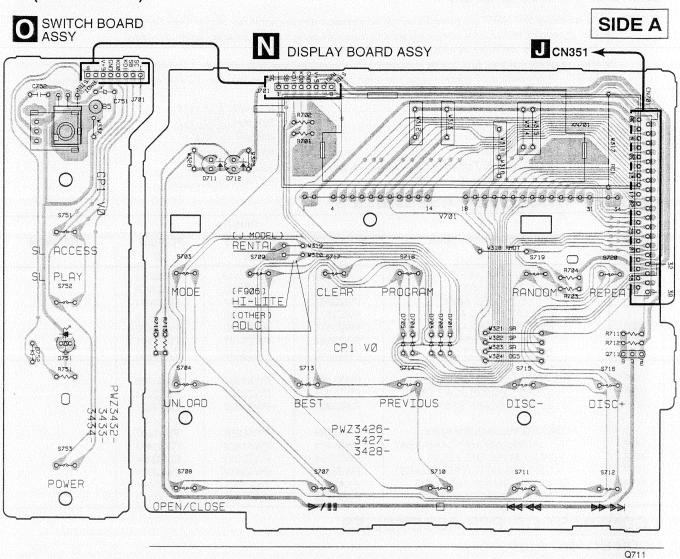
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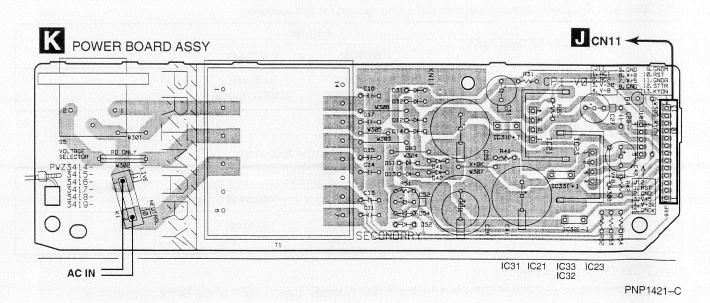






4.5 DISPLAY BOARD ASSY, SWITCH BOARD ASSY AND POWER BOARD ASSY (FOR PD-F907)





K N O 23

5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

The
 <u>↑</u> mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.

When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

5 = 5%, that K = 10%). $560 \ \Omega \rightarrow 56 \times 10^{1} \rightarrow 561$ RD1/4PU \(\bar{5} \) \(\bar{6} \) \(1 \) \(47k \ \Omega \rightarrow 47 \times 10^{3} \rightarrow 473 \) RD1/4PU \(\bar{4} \) \(7 \) \(3 \) \(1 \) \(\Omega \rightarrow R50 \) RN2H \(\bar{8} \) \(\Omega \rightarrow RS1P \) \(\bar{1} \bar{1} \) \(\Omega \rightarrow RS1P \) \(\bar{1} \bar{1} \bar{0} \) \(K \)

■ LIST OF WHOLE PCB ASSEMBLIES

				Remarks	
Mark	Symbol and Description PD-F957/ KU/CA		PD-F907/ KU		PD-F907 KC
NSP	MOTHER BOARD ASSY	PWM2130	PWM2119	PWM2119	
<u>^</u>	─ MAIN BOARD ASSY	PWZ3663	PWZ3400	PWZ3400	
<u> </u>	POWER BOARD ASSY	PWZ3668	PWZ3414	PWZ3414	
	DISPLAY BOARD ASSY	PWZ3672	PWZ3426	PWZ3426	
NSP	 SWITCH BOARD ASSY 	PWZ3675	PWZ3432	PWZ3432	
NSP	DOOR BOARD ASSY	PWZ3681	PWZ3441	PWZ3441	
NSP	CENTER LED ASSY	PWZ3683	PWZ3443	PWZ3443	
NSP	SELECT MECHA BOARD ASSY	PWX1465	PWX1465	PWX1465	
NSP	SELECT MOTOR BOARD ASSY	PWZ3324	PWZ3324	PWZ3324	
NSP	☐ SENSOR BOARD ASSY	PWZ3327	PWZ3327	PWZ3327	
	LOADING MECHANISM ASSY	PXA1589	PXA1589	PXA1589	
NSP	LOADING MECHA BOARD ASSY	PWX1474	PWX1474	PWX1474	
NSP	LOAD SW BOARD ASSY	PWZ3334	PWZ3334	PWZ3334	
NSP	LOADING MOTOR BOARD ASSY	PWZ3337	PWZ3337	PWZ3337	
NSP	SERVO MECHANISM ASSY GM	PXA1591	PXA1591	PXA1591	
	-MECHANISM BOARD ASSY	PWX1192	PWX1192	PWX1192	

■ CONTRAST OF PCB ASSEMBLIES DOOR BOARD Assy

PWZ3681 and PWZ3441 are constructed the same except for the following:

Mark	Symbol and Description CONNECTOR J631	Part		
iii.G. K		PWZ3681	PWZ3441	Remarks
NSP		51048-0400 D20PDY0425E	Not used D20PWY0425E	

CENTER LED BOARD Assy

PWZ3683 and PWZ3443 are constructed the same except for the following:

Mark	Symbol and Description CONNECTOR J1601	Part		
		PWZ3683	PWZ3443	Remarks
NSP		51048-0300 D20PDY0340G	Not used D20PWY0340G	

SWITCH BOARD Assy

Although PWZ3675 and PWZ3432 are different in part number, they consist of the same components.

■ PARTS LIST FOR PD-F957/KU/CA

Mark I	No.	Description	Parts No.	Mark	No.	Description	Parts No.
MAIN BOARD ASSY (PWZ3663)			Other Resistors		RD1/4PU		
				OTH			· · · · · · · · · · · · · · · · · · ·
<u>^</u>	CONDUCTO IC151 IC301 IC203 IC201,IC202 IC302	ORS	CXA1782CQ CXD2529Q LA6517 LA6520 LC89170M	5 11.	CN207 CN208 CN205 CN203 CN204	MT 4P CONNECTOR 3P JUMPER CONNECTOR 4P JUMPER CONNECTOR 5P JUMPER CONNECTOR 7P JUMPER CONNECTOR	173981-4 52147-0310 52147-0410 52147-0510 52147-0710
	IC405 Q151 Q381,Q391 Q403,Q404 Q341		NJM4558DX 2SA854S 2SC1740S 2SD2144S 2SK246		CN11 JA394 JA321 CN351 JA401 JA393	12P JUMPER CONNECTOR I/O INTERFACE JACK OPTICAL LINK OUT CONNECTOR JACK	52147-1210 DKN1035 GP1F32T HLEM40S-1 PKB1032
	Q152,Q406 Q153,Q321,Q D1301-D1309 D341,D391-D D218	,D1312-D1314,D321	DTA124ES DTC124ES 1SS254 1SS254 MTZJ6.2B		X341	JACK JACK A392 JACK CONNECTOR 6P CONNECTOR	PKN1005 PSS1008 RKN1004 RKP-533 SLW16S-1C7
	AND FIL					SCREW PLATE	VNE1948
	L391,L395,L3	96	LAU1R0J				
	CITORS				POWE	ER BOARD ASSY (P	WZ3668)
	C181 C341,C342 C372,C373,C C315 C481,C482 C356 C171,C175,C C311-C314,C C433,C434 C131-C133,C C169,C170 C309 C153-C155,C C250,C321 C157	316,C322,C380 211,C212 158,C172,C230 164,C168,C218	CCCCH100D50 CCCCH120J50 CCCSL101J50 CCCSL221J50 CCCSL390J50 CEAT100M50 CEAT101M10 CEAT101M10 CEAT220M25 CEAT330M16 CEAT4R7M50 CEAT4R7M50 CFTLA104J50	A CAP	ICONDU IC31,IC3 IC21 D54 D11-D14 ACITOR C27 C52 C26 C11,C13 C25 ISTORS Other Re	CTORS 2 D52 S C15,C16 (6800 μF/16V) sistors CONNECTOR JUMPER WIRE POWER TRANSFORMER TERMINAL	ICP-N10 PQ05RR12 MTZJ24B S5688G CEAT101M10 CEAT101M35 CEAT222M16 CKCYF103Z50 VCH1060 RD1/4PU□□□□J 51048-1200 D20PDY1235E PTT1342 RKC-061
	C305		CKCYB222K50	DISPLAY BOARD ASSY (PWZ3672			PWZ3672)
,	C162 C167 C151	205,C210,C215	CKCYB332K50 CKCYB472K50 CKCYB682K50 CKCYF103Z50	SEM	ICONDU IC701 IC702	CTORS	PD4934B S-24C16ADP
,	C355,C366,C	318,C323,C351 371,C375 387,C394,C398	CKCYF103Z50 CKCYF103Z50 CKCYF103Z50		Q701 D701-D7 . S AND L701	FILTERS	DTC124ES 1SS254 LAU101J
,	R189 R157 VR153,VR155 VR151,VR152	, ,	RD1/4VM163J RD1/4VM274J RCP1045 RCP1046 RCP1049	SWIT		AND RELAYS 04,S707-S720	PSG1006

PD-F957,PD-F907

Mark No. Description Parts No. **CAPACITORS** C712 CEAT100M50 C705.C709 CEAT101M10 C711 CEAT4R7M50 C708 CKCYF103Z50 C701,C704,C706,C707 CKPUYY103M16 **RESISTORS** Other Resistors RD1/4PUDDDJ **OTHERS** CONNECTOR 51048-0600 CONNECTOR 51048-0800 CN701 CONNECTOR HLEM40R-1 V701 FL INDICATOR TUBE PEL1095 X701 CERAMIC RES.(4.19MHz) VSS1028

Parts No. LOADING MOTOR BOARD ASSY LOADING MOTOR BOARD assembly has no service part. **MECHANISM BOARD ASSY SWITCHES AND RELAYS** S610 DSG1016

173979-4

Description

CN610 MT 4P CONNECTOR

Mark No.

OTHERS

SWITCH BOARD ASSY

SWITCHES AND RELAYS

S751-S753 CAPACITORS C752

PSG1006

CKCYF103Z50

OTHERS

REMOTE RECEIVER UNIT GP1U27X

C DOOR BOARD ASSY

OTHERS

CONNECTOR **REAF SWITCH** 51048-0400 VSK1011

CENTER LED BOARD ASSY

SEMICONDUCTORS

D1601-D1603

SLR-342YCT31

RESISTORS

Other Resistors

RD1/4PUDDDJ

OTHERS

CONNECTOR

51048-0300

J1601

D20PDY0340G

SELECT MOTOR BOARD ASSY

SELECT MOTOR BOARD assembly has no service part.

SENSOR BOARD ASSY

SEMICONDUCTORS

Q601,Q602 D601,D602

DTC124ES **GP1S53V**

RESISTORS

Other Resistors

RD1/4PU

LOAD SW BOARD ASSY

SWITCHES AND RELAYS

S651,S652

VSG1006

OTHERS

J656

3P JUMPER WIRE

D20PWW0310E

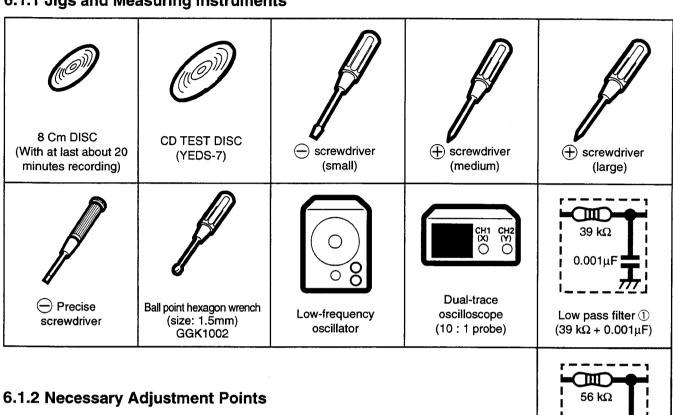
■ PARTS LIST FOR PD-F907/KU/KC

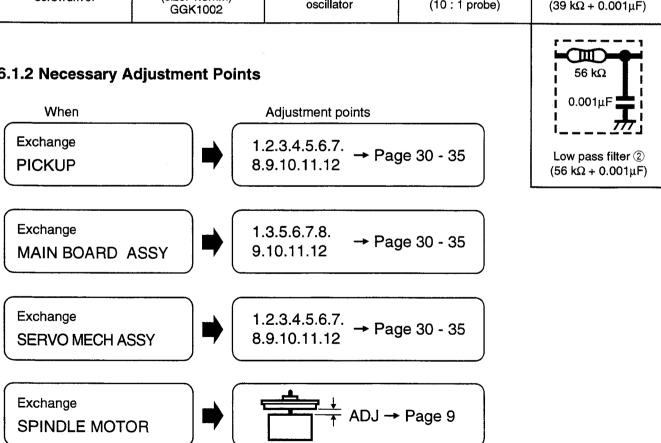
Monte	No.				•	
Mark	No. Description	Parts No.	Mark	No.	Description	Parts No.
J	MAIN BOARD ASSY(PWZ3400)	RESI	STORS	;	
				R189		RD1/4VM163J
SEM	CONDUCTORS			R157		RD1/4VM274J
	IC151	CXA1782CQ		VR153,\	(-··)	RCP1045
	IC301	CXD2519Q			/R152,VR154 (22k Ω)	RCP1046
<u>^</u> <u>^</u> <u>^</u>	IC203	LA6517		VR156	(220k Ω)	RCP1049
\triangle	IC201,IC202	LA6520				
\triangle	IC371	NJM2930L05		Other Re	esistors	RD1/4PU===J
			OTH	ERS		
	IC405	NJM4558DX		CN207	MT 4P CONNECTOR	173981-4
\triangle	IC71	NJM79L05A		CN208	3P JUMPER CONNECTOR	52147-0310
	IC351	PD4817A		CN205	4P JUMPER CONNECTOR	52147-0410
	Q151	2SA854S		CN203	5P JUMPER CONNECTOR	52147-0510
	Q381,Q391	2SC1740S		CN204	7P JUMPER CONNECTOR	52147-0710
	0400 0404					
	Q403,Q404 Q341	2SD2144S		CN11	12P JUMPER CONNECTOR	52147-1210
	Q152.	2SK246		JA321	OPTICAL LINK OUT	GP1F32T
	•	DTA124ES		CN351	CONNECTOR	HLEM32S-1
	Q321,Q371,Q372,Q405	DTC124ES		JA401	JACK	PKB1032
	D218,D321,D341,D372,D373	1SS254		JA393	JACK	PKN1005
	D391-D397,	1SS254		X341	X TAL.RES.(16.9344MHz)	PSS1008
	D374	MTZJ3.3B			A392 JACK	RKN1004
COIL	S AND FILTERS			CN201	CONNECTOR 6P	RKP-533
	L391,L395,L396,L393	LAUGDOL		CN202	CONNECTOR	SLW16S-1C7
040	, , , ,	LAU1R0J		ONLOZ	COMMEDION	3E44 103-107
CAP	ACITORS				SCREW PLATE	VNE1948
	C181	CCCCH100D50		X351	CERAMIC RES.(4.19MHz)	VSS1028
	C341,C342	CCCCH120J50	72	DOW/		
	C373 (0.047F)	ACH1246		PUVVI	ER BOARD ASSY (P	WZ3414)
	C315	CCCSL221J50				
	C481,C482	CCCSL390J50	SEM	CONDL	JCTORS	
	C171,C175,C301,C302	CEAS101M10	\triangle	IC21		PQ05RR12
	C311-C314,C316,C322,C374	CEAS101M10		D54		MTZJ18B/C
	C73	CEAS101M10	\triangle	D11-D14	J,D31,D32,D52	S5688G
	C371	CEAS1R0M50	CAPA	ACITOR	S	
	C433,C434	CEAS220M25		C27	. –	CEAS101M10
				C52		CEAS101M35
	C131-C133,C211,C212	CEAS330M16		C26		CEAS222M16
	C376	CEAS470M10		C31		CEAS330M16
	C351	CEAS471M6R3			,C15,C16	CKCYF103Z50
	C169,C170,C356	CEAS4R7M50		0 , 0	,010,010	ORO11 100230
	C309	CEASR47M50		C25	(6800 μF/16V)	VCH1060
			RESI	STORS	. ,	
	C153-C155,C158,C230	CFTXA104J50		Other Re	voietem	DD4/4DH
	C250,C321	CFTXA104J50		Oulei ne	SISIOIS	RD1/4PU□□□□J
	C157	CFTXA823J50	A			
	C156,C161,C164,C168,C218	CGCYX103K25	OTHE	ERS		
	C160	CGCYX333K25		J11		D20PWY1235E
			$\stackrel{lack}{\mathbb{A}}$		POWER TRANSFORMER	PTT1318
	C152,C307	CGCYX473K25	<u> </u>		TERMINAL	RKC-061
	C397	CKCYB101K50				
	C163	CKCYB102K50		DISPI	AY BOARD ASSY (PW73426)
	C176,C306,C441,C442	CKCYB152K50			CONTRACTOR	1120720)
	C305	CKCYB222K50	CEM	001101	ICTORO	
	C162	CKCYB332K50	SEMI		ICTORS	
	C167	CKCYB472K50		D701-D7		1SS254
	C151	CKCYB682K50	SWIT	CHES A	AND RELAYS	
	C159,C185,C205,C210,C215	CKCYF103Z50		S703.S7	04,S707-S720	PSG1006
	C219,C304,C318,C323,366,C353		OTHE		,	
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		♥ 111L	CN701	CONNECTOR	LII EMOOD 4
	C354,C358,C362,C366	CKCYF103Z50		V701	CONNECTOR FL INDICATOR TUBE	HLEM32R-1 PEL1089
	C375,C399,C81	CKCYF103Z50		V/01	LINDICATOR TUBE	FEL 1003

6. ADJUSTMENT

6.1 PREPARATIONS

6.1.1 Jigs and Measuring Instruments

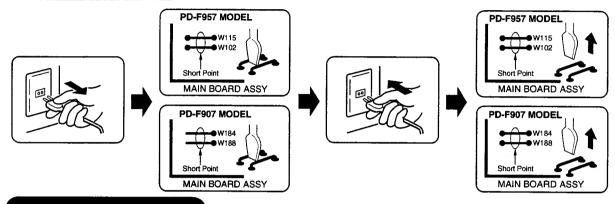




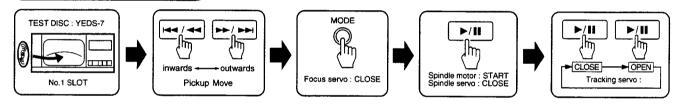
6.2 ADJUSTMENT

6.2.1 How to Start/Cancel Test Mode

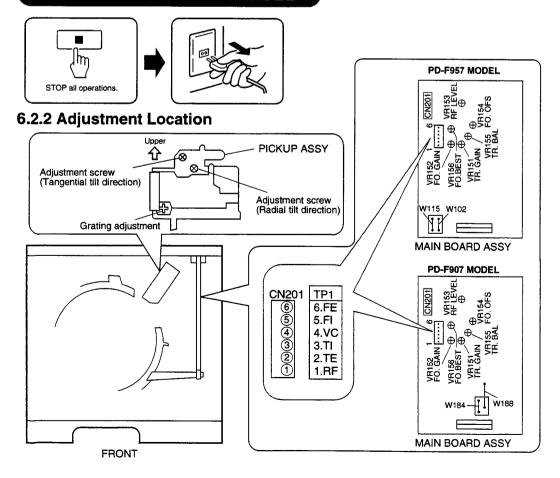
TEST MODE: ON



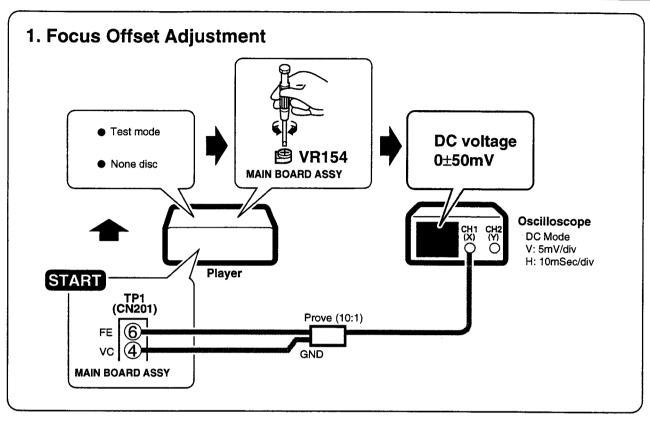
TEST MODE: PLAY

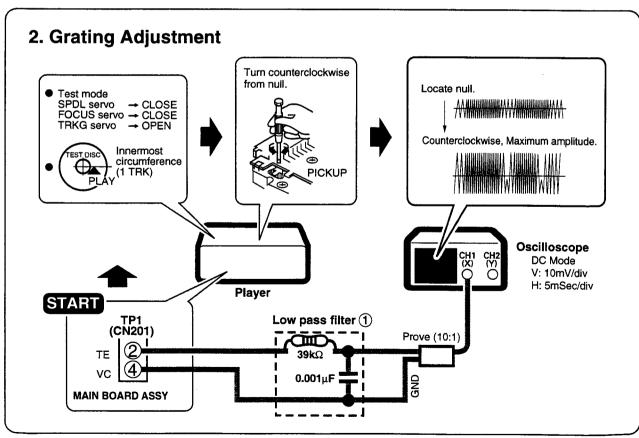


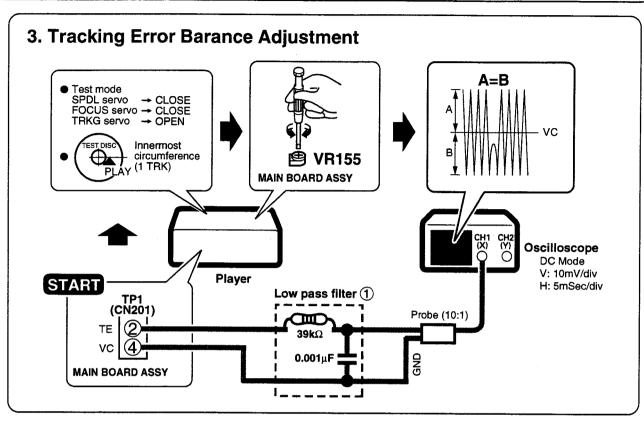
TEST MODE: STOP → CANCEL

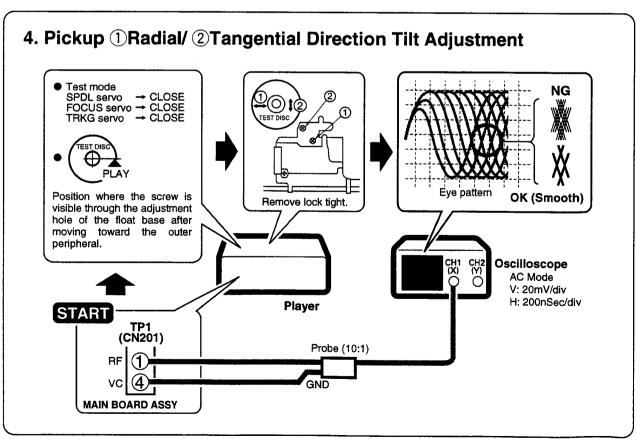


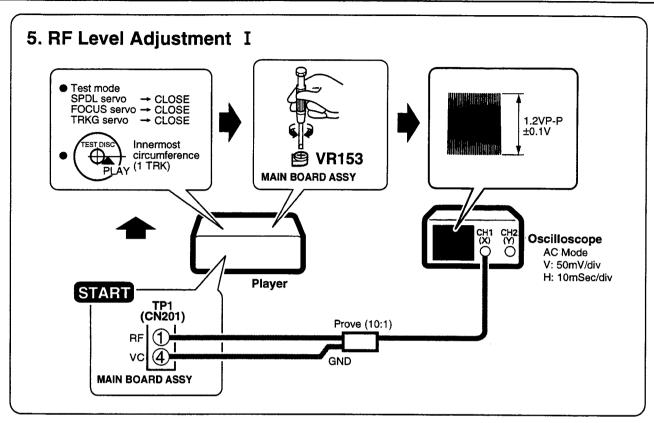
6.2.3 Check and Adjustment

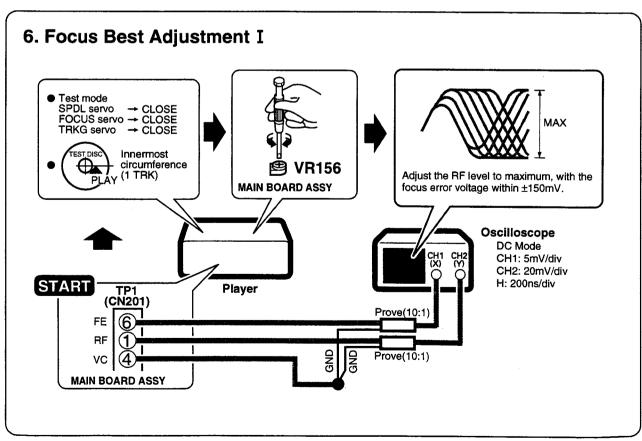


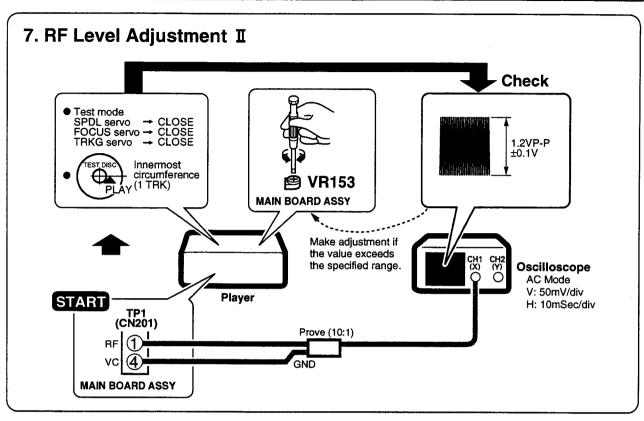


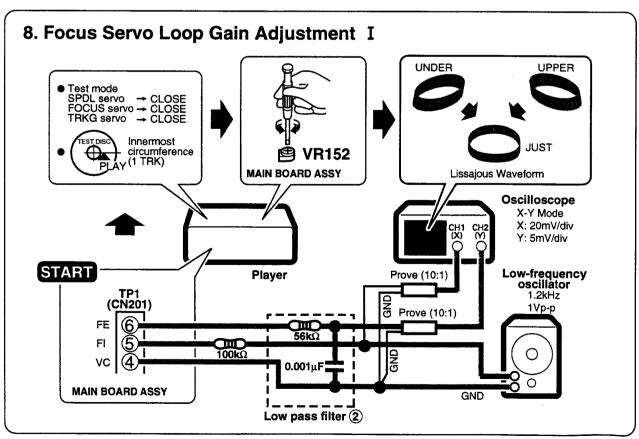


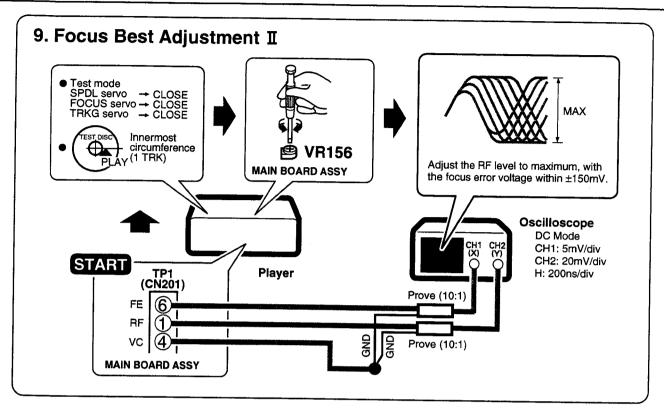


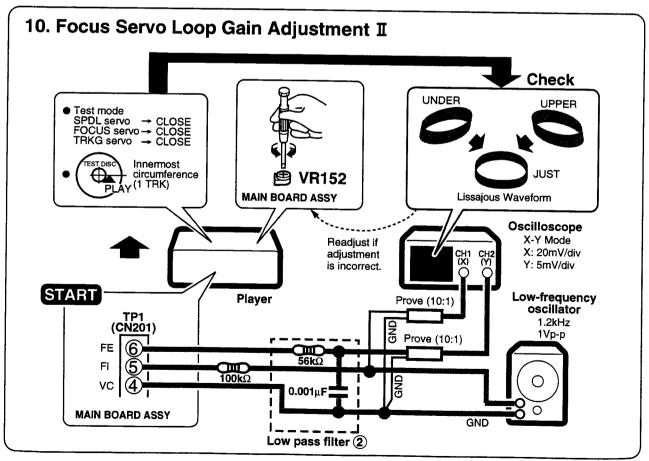


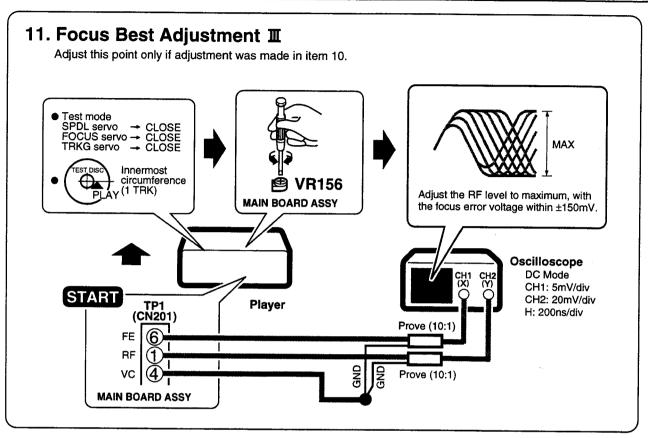


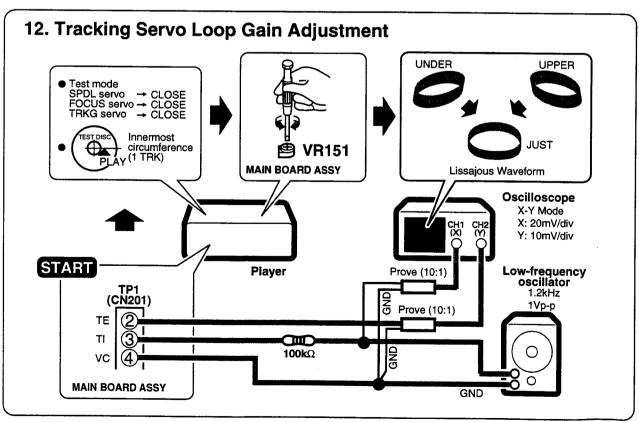












7. GENERAL INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

O Standby - led /osce.

Function

No. Pin Name I/O

STBL

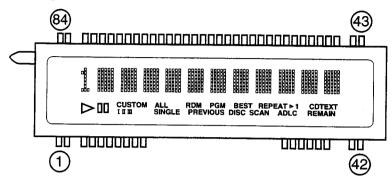
7.1 PARTS

7 4	1.1 IC			4/	31DL		Standby - led /OSCE.
7.				48	KD3		
	PD49341	3 (10	C701:DISPLAY BOARD ASSY)	49	KD2		Key data input.
		•	•	50	KD1		
• 9	SYSTEM	CC	ONTROL MICRO COMPUTER	51	KD0		
• 6	Pin Fund	ctio	n	52	S36	0	
				53	S 35	0	
No.	Pin Name	1/0	Function	54	\$34	0	
1	VDD	+5V	+5V	55	S33	0	
2	CLS		Hood open/close SW input.	56	S32	0	
3	OPEN		Open (CLS:H,OPEN:L),Close (CLS:L,OPEN:H)	57	S31	0	
4	DCNT		Disc count pulse input.	58	S30	0	
5	DPOS	1	Disc position detection pulse input.	59	S29	0	·
6	DSLT	0	Selecter output. Count up(DSRT:L,DSLT:H) Count down(DSRT:H,DSLT:L)	60	S28	0	
7	DSRT	0	Stop(DSRT:L,DSLT:L)	61	S27	0	
8	MCLS	<u> </u>	Hood motor output. Open(MOPN:H,MCLS:L) Close(MOPN:L,MCLS:H)	62	S26	0	
9	MOPN	0	Stop(MOPN:L,MCLS:L)	63	S25	0	
10	RESET	1	CPU Reset.(L: RESET)	64	S24	0	FL driving segment output.
11	X2		Crystal connection for system clock oscillation	65	S23	0	
12	X1		:4.19MHz.	66	S22	0	
13	IC	GND	GND	67	S21	0	
14	XT2	-	NC (OPEN)	68	S20	0	
15	GND	1	GND	69	S19	0	,
16	VDD	+5V	+5V	70	S18	0	
17	CLOK	0	Serial clock.	71	S17	0	
18	MDAT	0	LSI control data.	72	S16	0	
19	sqso	ı	Serial input.(Q data/fcok/gfs/sens/clmp/eject/insd)	73	S15	0	
20	XLAT	0	LSI control data latch pulse output.	74	S14	0	
21	XRST	0	Reset input fof each LSI.	75	S13	0	
22	SCLK	0	CD TEXT timing data clock output.	76	S12	0	·
23	-	0	L: output.	77	S11	0	
24	SRDT	-	CD TEXT data input.	78	S10	0	_
25	AVSS	_	GND	79	VLOAD	-26V	-26V
26	LIN	0	Lauding motor output. IN(LIN:H,LOUT:L) OUT(LIN:L,LOUT:H)	80	S9	0	
27	LOUT	0	Stop(LIN:L,LOUT:L)	81	S8	0	
28	CLED/TEST	1/0	Center LED control (ON:H , OFF:input)	82	S7	0	
29	DQSY	1	CD TEXT data input.	83	S6	0	
30	MUTB	0	Muting output (L:MUTE)	84	S5	0	
31	SYC3	0	Synchronous output.	85	S4	0	
32	SYC1	ł	Synchronous input.	86	S3	0	
33	DLAT	0	DAC control data latch pulse output.	87	S2	0	
34	AVDD	+5V	+5V	88	S1	0	
35	AVREF	GND	GND	89	G12	0	
36	CNIN	ı	C.OUT input.	90	G11	0	FL driving segment output.
37	TRST	0	CD TEXT decooder reset output. (L: reset)	91	G10	0	
38	SCOR	1	Subcode sync SO+S1 input.	92	G9	0	
39	RMDT	1	Remote control data input.	93	G8	0	
40		GND	GND	94	G7	0	
41	QSEL	0	Signal output for Q DATA expansion	95	G6	0	
42	MUTE	0	Muting output for expansion. (MUTE:H)	96	G5	0	
43	TRCH	0	Data serial output for expansion.	97	G4	0	
44	SCL	0	EEPROM clock output	98	G3	0	
45	SDA	1/0	EEPROM data IN/OUTPUT	99	G2	0	
46	VDD	+5V	+5V	100		0	
<u> </u>				ئىتى		لــــــــــــــــــــــــــــــــــــــ	

7.1.2 DISPLAY

■ PEL1095(V701: DISPLAY BOARD ASSY) :FOR PD-F957

• Pin Assignment



Anode Grid Assignment

G2 00 00000 00 00000 0 00000 0 00000	63 00000 00000 00000 00000 00000 00000	64 00000 00000 00000 00000 00000	65 00000 00000 00000 00000 00000	G6 00000 00000 00000 00000 00000	67 00000 00000 00000 00000 00000	68 00000 00000 00000 00000	69 00000 00000 00000 00000	G10 00000 00000 00000 00000 00000	G11 00000 00000 00000 00000 00000	G12 00000 00000 00000 00000
DI Custom all RDM PGM BEST REPEAT > 1 CD TEXT IIIIII SINGLE PREVIOUS DISC SCAN ADLC REMAIN 61										

	G1		G1
S17	\triangle	527	SINGLE
\$18		528	BEST
\$19	11	529	REMAIN
520		530	\triangleright
521	2000	531	REPEAT
522	CDTEXT	S32	PGM
S23	ADLC	\$33	RDM
524	SCAN	534	ALL
S25	DISC	S35	CUSTOM
526	PREVIOUS		

<u> </u>	2~612
	S1 S2 S3 S4 S5
	S6 S7 S8 S9 510
	511 512 513 514 515
S36	516 517 518 519 520
	521 522 523 524 525
	526 527 528 529 530
	531 532 533 534 535

Pin Connection

Pin No.	1	2	3	4	5	6	7	9	9	10	11	12	13	14	15	16	17	18	19	20	21
Assignment	NL	NL	NP	NP	S29	\$30	S31	S32	533	S34	S35	S36	NP	NP	NP	NP	NP	NP	NP	NP	NP
Pin No.	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Assignment	NP	NP	NP	NP	NP	NP	NP	NP	NP	ŃΡ	G1	G2	G3	G4	G5	G6	NP	NP	NP	NL	NL
Pin No.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Assignment	F2	F2	ŊΡ	NΡ	G7	G8	69	G10	G11	G12	S١	S2	S3	54	S5	56	\$7	58	S9	510	511
Pin No.	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
Assignment	512	S13	S14	\$15	316	517	518	519	520	521	S22	S23	524	525	526	527	528	NP	NP	FI	FI

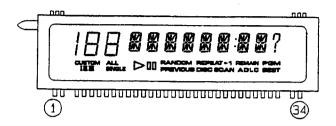
F1.F2:Filament G1

G1~G12:Grid S1~S36:Anode

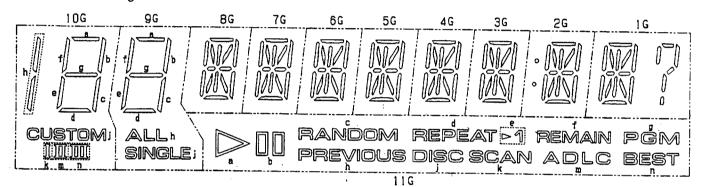
NP:No Pin

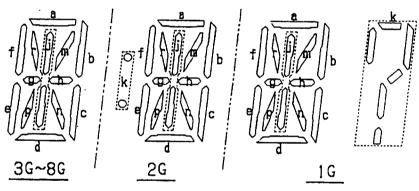
■ PEL1089(V701: DISPLAY BOARD ASSY) :FOR PD-F907

Pin Assignment



Anode Grid Assignment





Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Connection	F	F	NP	11G	10G	96	8G	7G	6G	5G	4G	3G	2G	1 G	NL	NL	NL	р	r	a
Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
Connection	ь	С	d	е	f	o	h	i	k	m	7	NP	E	Е						

F:Filament 1G~11G:Grid a~h, j, k, m, n, p, r:Anode NP:No Pin NL:No Lead

7.2 DIAGNOSIS

7.2.1 ERROR CODE DISPLAY

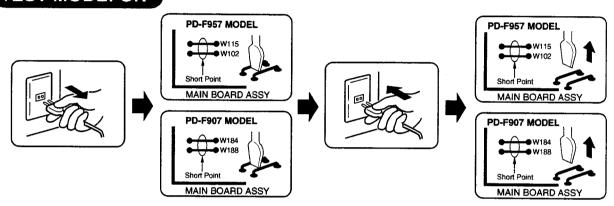
If a failure occurs in the Loading mechanism, the error symbol is automatically displayed on the fluorescent display screen of the front panel.

7.2.2 ERROR HISTORY AND DISPLAY

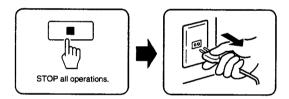
Error history display in test mode

The previously generated errors (NG processing) can be confirmed in the test mode. Since the has a backup function, the error history is memorized even if the power is turned off. (Memory holding time: About two days)

TEST MODE: ON



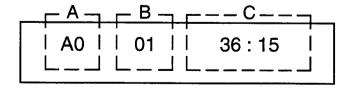
TEST MODE: STOP CANCEL



Press the "BEST" button of the keys on the main body.



An error appears on the fluorescent indicator display by the above operation.



A: Disc No.

: Error code

B: Track No.

: Error sequence

C: Minute:second No.

: Error generation mode

(Only 10's digit is valid.)

The previously generated 16 error codes (maximum) can be memorized. These error codes are displayed one at a time in the ascending order by pressing the "BEST" button again.

Note: A product performs fail safe operation when an error occurs. At that time, an error code is memorized by the fail safe operation after the error is eliminated.

7.2.3 ERROR HISTORY DISPLAY

(1) Disc No. A: Detail of error code at portion

<Note> The user display appears only when the normal operation cannot be returned even if the fail safe operation is executed after each error occurs.

User	display	Description
None	AO	A disc couldn't be detected for playback after loading because; No disc existed.
		A disc was turned upside down.
		A disc was dirty.
		A disc was loaded incompletely.
		 The focus got out of place during playback due to the crack
		and stain on the disc.
None	A1	 The servo mechanism couldn't move to the desired tune
		position within a fixed time during selection of a tune from
		playback or during playback.
	A3	A disc couldn't be loaded within a fixed time.
U1		(A disc couldn't be carried from the rack block.)
	A4	A disc couldn't be unloaded within a fixed time. (A disc couldn't
		be returned to the rack block.)
	A2	The LOADING mechanism couldn't move to the desired disc
		position within a fixed time during selection of a disc from
		playback or during playback start from stop.
U2		
	A5	 The LOADING mechanism couldn't be forcibly returned to
		the home position (left position when viewed from the front)
None	- 40	within a fixed time after it is initialized or becomes NG.
None	A6	A disc couldn't be normally rotated for playback after loading
		because;
Ì		A disc was turned upside down.
		A disc was dirty
		A disc was loaded incompletely.
		 A disc couldn't be normally rotated during playback due to the crack and stain on the disc.
	- 1	ordon and stain on the disc.

User	display	Description
None	А7	 Mechanism position just before the LOADING mechanism shifts to the disc selection operation when the DCNT pin is low. (The DCNT pin is usually high when the LOADING mechanism is in the stop state. The mechanism position is thus judged to have been shifted for some reason. The shifted mechanism position may cause a failure.)
None	A8	Discrepancy has occurred between the detected disc position and the current disc position during movement of the loading mechanism. (The system may incorrectly counted the waveforms of the DCNT and DPOS terminals. If counting is incorrect, the position of the disc No. displayed does not match the disc position counted.)
None	A9	Mechanism position during disc loading when the DCNT pin is low. (The DCNT pin is usually high when the LOADING mechanism is in the stop state. The mechanism position is thus judged to have been shifted for some reason. The shifted mechanism position may cause a failure.)
None	AA	The pickup block cannot return to the innermost circumference when the playback is Completed or another disc is shifted.

Hood section

User	display	Description
UЗ	P0	The hood did not open within the specified time. The switch of the hood was malfunctioning.
	P1	The hood did not close within the specified time. The switch of the hood was malfunctioning.
	P2	The hood was attempted to be opened with force when it was completely closed. The switch of the hood was malfunctioning.

(2) Track No. B : Error sequence in portion

The display of 1 to 16 appears. The low number indicates the recently generated error. The error whose number is "1" was generated most recently.

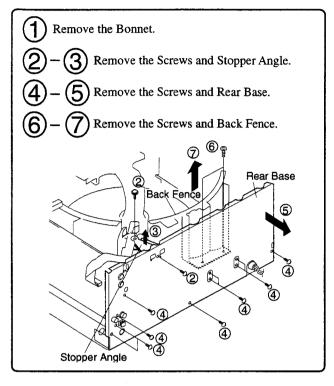
(3) Minute: Second No. C: Detail of error generation mode in portion

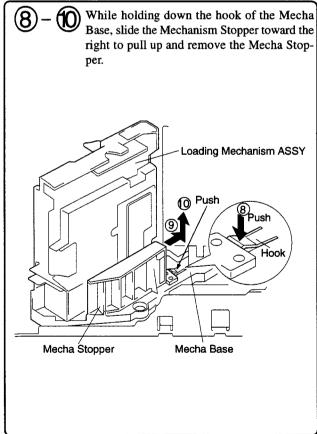
Indicates the internal mode in which the displayed error is generated. The upper digit in "minute: second" has the meaning.

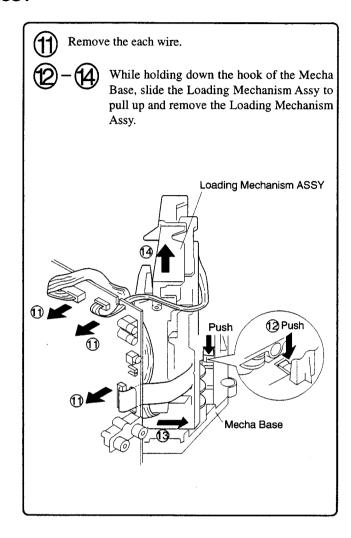
	Digit of minute		Digit of second			
Display	Contents	Display	Contents			
0 *	Spindle stop operation	0*	During closing of the hood			
1 *	Disc return operation		and when the hood is com			
2 *	Disc selection operation		pletely close			
3*	Setup operation	1 *	During opening of the hood			
4 *	CD-R setup operation		and when the hood is com			
5*	TOC read		pletely open			
6*	Track search operation					
7*	Play					
8*	Pause					
9*	Manual search					

7.2.4 DISASSEMBLY

■ REMOVING THE LOADING MECHANISM ASSY







■ REMOVING THE OPERATION PANEL

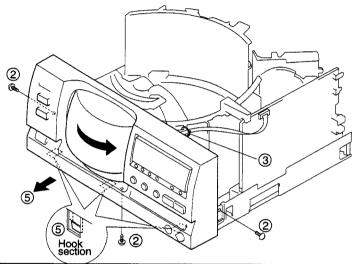
Remove the Bonnet.

Remove the Screws.

(3) Cut the Binder securing the wire material.

Remove the Center Pole. (Refer to the "REMOVING THE DISC RACK")

Shift the Front Panel slightly toward you while paying attention to the back side hooks on the Chassis.

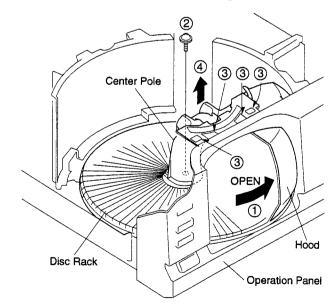


■ REMOVING THE DISC RACK

(1) Open the Hood.

(2) Remove the Screws.

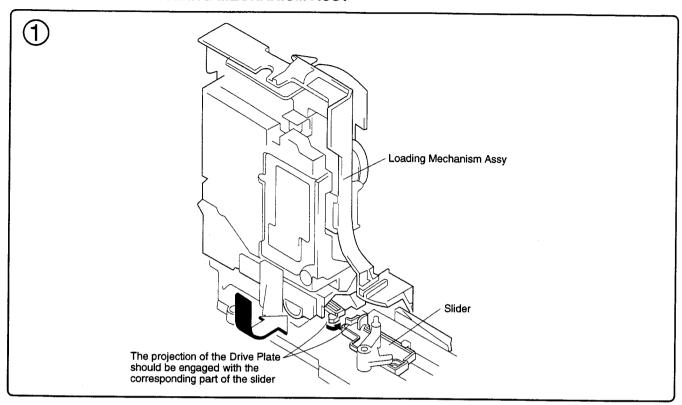
7 Press the 4 hooks to remove the Center Pole from the Operation Panel.



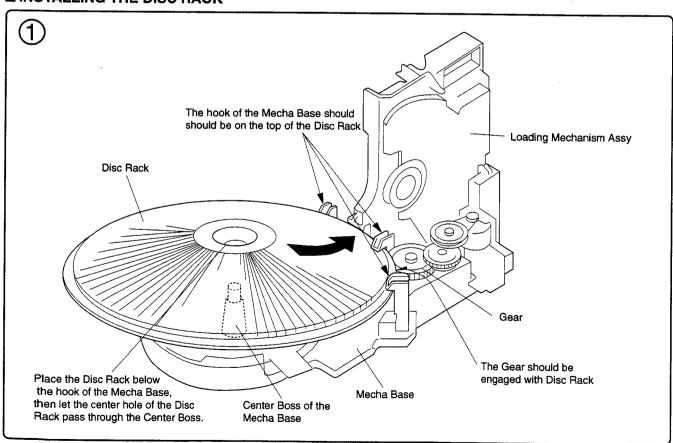
REMOVE THE HOOD AND HOOD BASE

Remove the Bonnet. Remove the Operation Panel. (Refer to the "REMOVING THE OPERATION PANEL") Remove the Screws. Remove the Back Fence. Press the hook of the Stopper of the Hood Base to remove the Stopper. Slide the Hood toward the left to remove the Hood. Remove the Screws. Remove the Hood Base. Back Fence Hood 7 Turning Stopper Hood Base

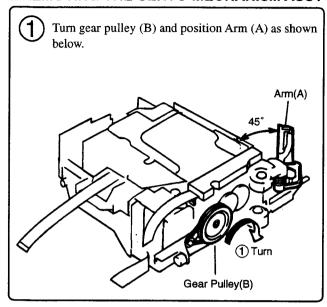
■ INSTALLING THE LOADING MECHANISM ASSY

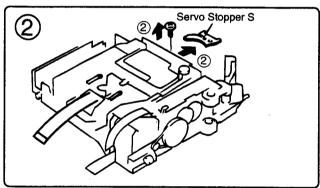


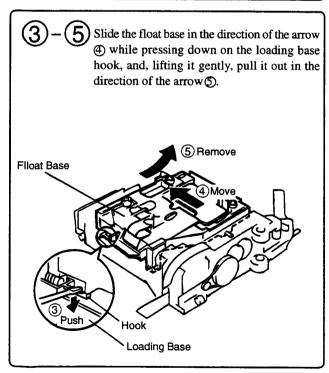
■ INSTALLING THE DISC RACK

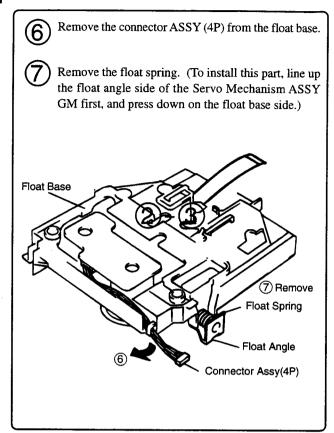


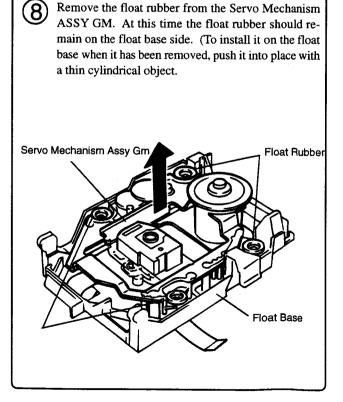
■ REMOVING THE SERVO MECHANISM ASSY GM







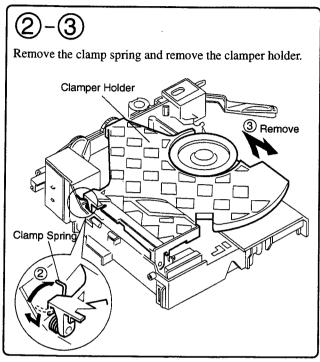


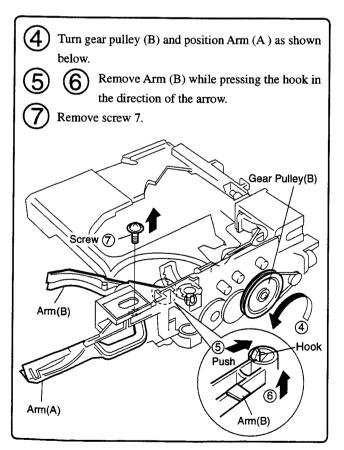


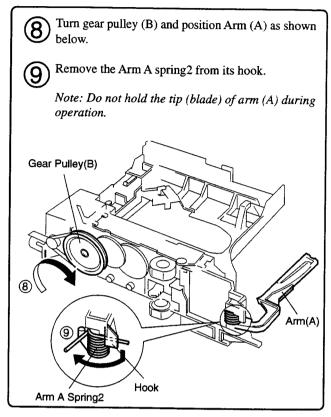
■ REMOVING THE ARM (A)

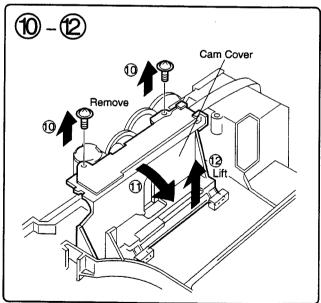
Remove the float base together with the Servo
Mechanism ASSY GM. (Refer to Steps ①-⑤ for

"■ Removing the Servo Mechanism ASSY GM".)



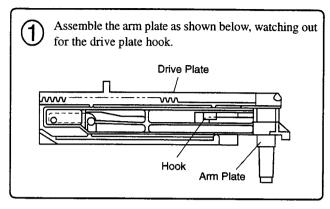


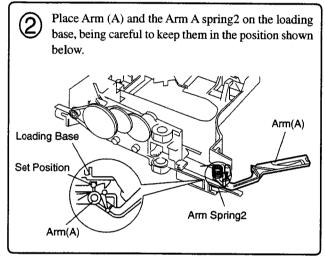


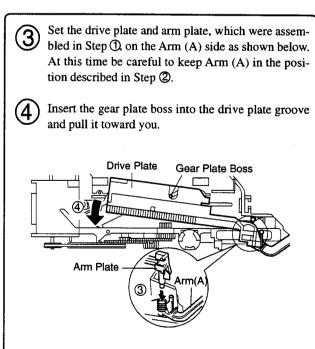


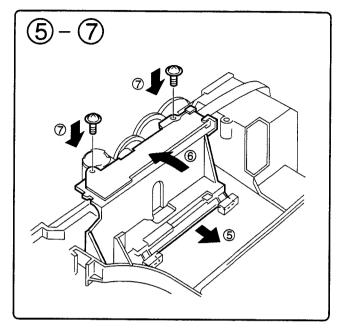
Remove drive plate, Arm plate, Arm A spring2 and Arm (A). (Refer to Steps 3-4 on page 47.)

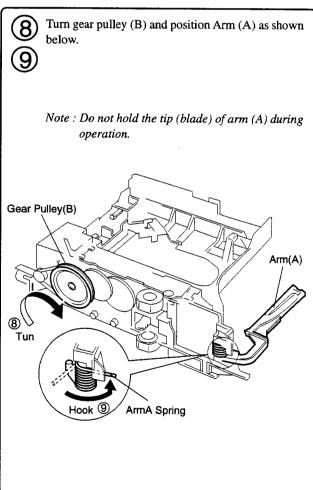
■ FOR REASSEMBLY, REVERSE THE DISASSEMBLY PROCEDURE, AND IN ADDITION CARRY OUT THE FOLLOWING ITEMS.

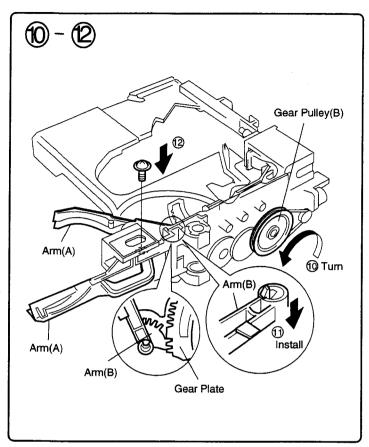


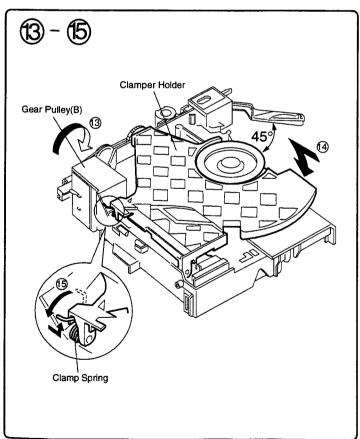




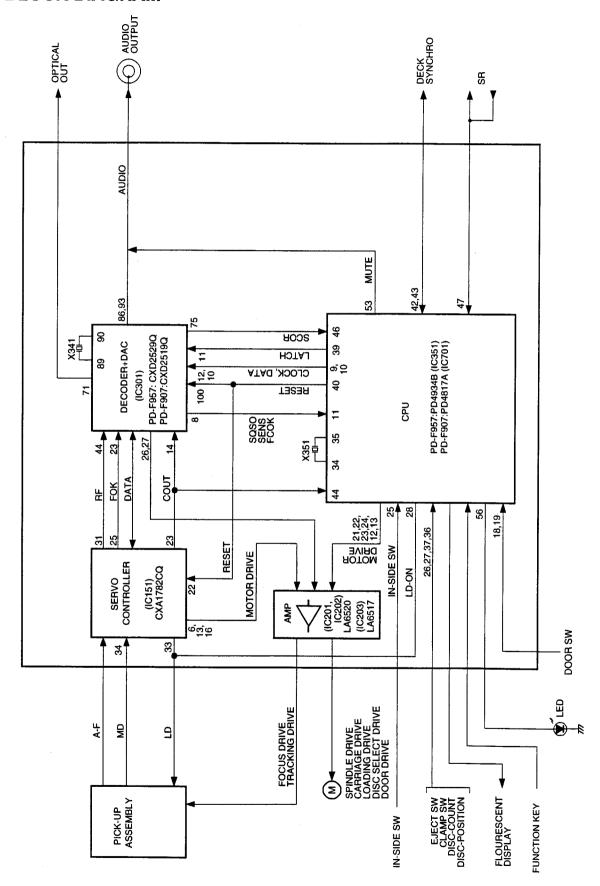






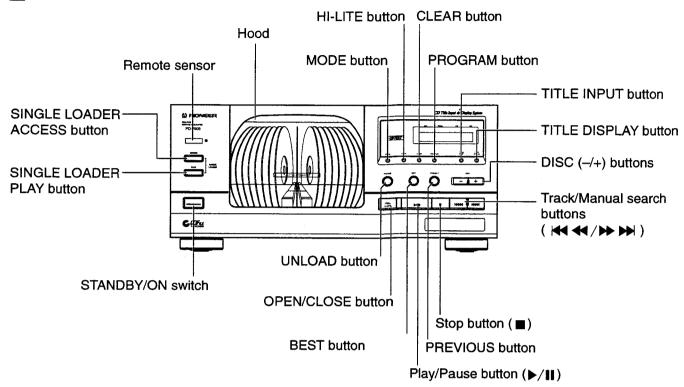


7.3 BLOCK DIAGRAM

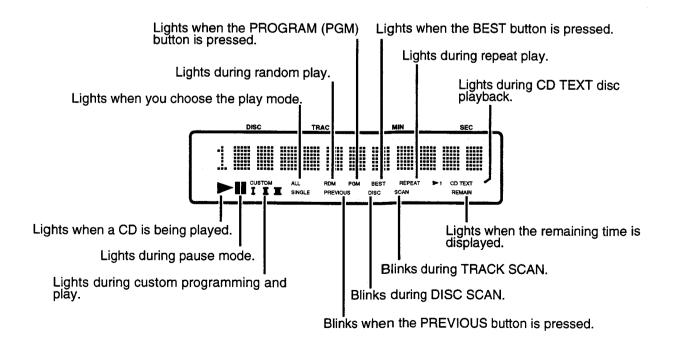


8. PANEL FACILITIES AND SPECIFICATIONS

FRONT PANEL



DISPLAY



SPECIFICATION

1. General

Type	. Compact disc digital audio system
Power requirements	,
U.S. and Canadian models	AC 120V, 60 Hz
	AC 220-240V, 50/60 Hz
European model	AC 220-240V, 50/60 Hz
	AC 110-127/220-240V
•	(switchable) 50/60Hz
Power consumption	, , , , , ,
U.S. and Canadian models	12W
	14W
European model	14W
	14W
	+5°C - +35°C
	(+41°F - +95°F)
Weight (without package)	6.5 kg (14 lb 3 oz.)
External dimensions	420(W) X 402(D) X 193(H) mm
	(W) X 15-13/16(D) X 7-10/16(H) in.

2. Audio section

Frequency response	2 Hz - 20 kHz
S/N ratio	98 dB or more (EIAJ)
Dynamic range	
Channel separation	
Harmonic distortion	0.003 % or less (EIAJ)
Level difference between channels	1.0 dB or less (EIAJ)
Output voltage	2 Vrms (EIAJ)
Wow and flutter	less than ±0.001 % (W.PEAK)
(below measurable level) (EIAJ)
Channels	2-channel (stereo)

3. Output terminal

Audio line output
Control input jack (Except for U.K. model)
Control output jack (Except for European and U.K. models)
CD-DECK SYNCHRO jack
Optical digital output jack
I/O interface (Except for U.K. and Multi-voltage models)
Head phone jack with volume control
(Except for U.S. and Canadian models)

4. Accessories

Remote control unit	•
Size AA/R6P dry cell batteries	2
Output cable	•
Control cable (Except for European and U.K. models)	•
CD liner notes file (Except for U.S. and Canadian models)	1
Index label sheet (Except for U.S. and Canadian models)	1
Operating instructions	1
	Remote control unit

Note.

Specifications and design subject to possible modification without notice, due to improvements.